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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,777	06/26/2003	Jea-Woan Lee	1567.1047	5869
49455 75	590 12/23/2005		EXAM	INER
STEIN, MCEWEN & BUI, LLP			WEINER, LAURA S	
1400 EYE STREET, NW SUITE 300			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			1745	
			DATE MAILED: 12/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>					
	Application No.	Applicant(s)				
	10/603,777	LEE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Laura S. Weiner	1745				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 23 Ju	ıne 2003.					
2a) ☐ This action is FINAL. 2b) ☐ This						
<u></u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	•					
Disposition of Claims						
4)⊠ Claim(s) <u>1-62</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-62 are subject to restriction and/or e	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r					
		Evaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	•	•				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
TI) The ball of declaration is objected to by the Ex	diffilier. Note the attached Office	ACTION OF TOTAL PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau	s have been received. s have been received in Application of the contraction of the contr	ion No				
* See the attached detailed Office action for a list		ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				
S. Patent and Trademark Office						

Office Action Summary

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-19, 20-51, drawn to a negative electrode comprising a substrate a lithium secondary battery comprising a separator classified in class 429, subclass 233.
 - II. Claims 52-62, drawn to a negative electrode comprising a polymer film deposited with metal, classified in class 429, subclass 231.95.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are unrelated because they are not disclosed as capable of use together and have different effects such that Invention II requires a lithium layer coated on a polymer film deposited with metal whereas Invention I requires a substrate having a specified mean roughness and a lithium layer coated on the substrate.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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4. This application contains claims directed to the following patentably distinct

species of the claimed invention:

Elect one from A, B and C

If pick Invention I:

A) The substrate can

1) have a conductive material (claim 6) or

2) not have a conductive material.

B) The substrate can be

1) metal foil (choose one from claim 8) or

2) metal film (choose one from claim 8) or

3) conductive polymer film (choose one from claim 9) or

4) a polymer film deposited with metal (choose one from claim 10 or claim 57 or 61) or

5) a polymer film incorporated with a conductive agent (choose one polymer film from

claim 11 or claim 50, and one conductive agent from claims 12-13).

C) The positive electrode can be

1) lithium included metal oxide (choose one from claim 21) or

2) a lithium-included chalcogenide compound (choose one from claim 21) or

3) a sulfur-based material (choose one from claim 22) or

4) a conductive polymer.

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5. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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6. A telephone call was not made due to the complexity to request an oral election to the above restriction requirement and election of species requirement, therefore an election has not been made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura S Weiner
Primary Examiner
Art Unit 1745

December 21, 2005